

Title (en)

REFRIGERATOR OIL COMPOSITION AND REFRIGERATOR

Title (de)

MASCHINENÖLZUSAMMENSETZUNG FÜR KÜHLANLAGE UND KÜHLANLAGE

Title (fr)

COMPOSITION D'HUILE POUR MACHINE FRIGORIFIQUE ET MACHINE FRIGORIFIQUE

Publication

EP 3053995 A1 20160810 (EN)

Application

EP 14850864 A 20140930

Priority

- JP 2013207308 A 20131002
- JP 2014076074 W 20140930

Abstract (en)

The present invention provides a refrigerating machine oil composition comprising an ester-based base oil, an epoxy compound, and a carbodiimide compound, the refrigerating machine oil composition being used with a refrigerant containing a fluoropropene in a refrigerating machine comprising a member containing polyethylene terephthalate and/or a member containing hydrogenated acrylonitrile butadiene rubber.

IPC 8 full level

C10M 169/04 (2006.01); **C09K 5/04** (2006.01); **C10M 105/32** (2006.01); **C10M 105/38** (2006.01); **C10M 129/18** (2006.01); **C10M 129/66** (2006.01); **C10M 133/22** (2006.01); **C10M 171/00** (2006.01); **F25B 1/00** (2006.01); **C10N 30/00** (2006.01); **C10N 30/10** (2006.01); **C10N 40/30** (2006.01)

CPC (source: EP KR US)

C09K 5/045 (2013.01 - EP KR US); **C10M 105/32** (2013.01 - KR US); **C10M 105/38** (2013.01 - KR); **C10M 129/18** (2013.01 - KR US); **C10M 129/66** (2013.01 - KR); **C10M 133/16** (2013.01 - US); **C10M 133/22** (2013.01 - KR); **C10M 169/04** (2013.01 - KR US); **C10M 171/008** (2013.01 - EP US); **F25B 1/00** (2013.01 - KR); **F25B 31/002** (2013.01 - US); **F25B 43/003** (2013.01 - US); **C09K 2205/126** (2013.01 - EP KR US); **C10M 2207/042** (2013.01 - EP US); **C10M 2207/2805** (2013.01 - EP US); **C10M 2207/2835** (2013.01 - EP US); **C10M 2207/3045** (2013.01 - EP US); **C10M 2215/086** (2013.01 - US); **C10M 2215/14** (2013.01 - EP US); **C10N 2020/101** (2020.05 - EP US); **C10N 2030/10** (2013.01 - EP US); **C10N 2030/36** (2020.05 - EP US); **C10N 2040/30** (2013.01 - EP US); **F25B 2500/06** (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3053995 A1 20160810; **EP 3053995 A4 20160824**; **EP 3053995 B1 20220629**; BR 112016006728 A2 20170801; CN 105658778 A 20160608; CN 105658778 B 20190305; JP 2015071672 A 20150416; JP 6076876 B2 20170208; KR 102114652 B1 20200525; KR 20160062026 A 20160601; KR 20170123716 A 20171108; TW 201518497 A 20150516; TW I646187 B 20190101; US 2016244692 A1 20160825; US 9834737 B2 20171205; WO 2015050120 A1 20150409

DOCDB simple family (application)

EP 14850864 A 20140930; BR 112016006728 A 20140930; CN 201480054354 A 20140930; JP 2013207308 A 20131002; JP 2014076074 W 20140930; KR 20167008600 A 20140930; KR 20177031106 A 20140930; TW 103134459 A 20141002; US 201415026346 A 20140930